

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/014444

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C08G61/12 H01G9/00 H01M10/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C08G H01G H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 568 483 A (KOEHLER GERNOT ET AL) 4 February 1986 (1986-02-04) claims; examples 5,7,8 -----	1-22
Y	US 5 306 443 A (MATSUMOTO HITOSHI ET AL) 26 April 1994 (1994-04-26) column 19, lines 52-59; examples 54-63 -----	1-22
X	US 4 769 430 A (NAITOH SHIGEKI) 6 September 1988 (1988-09-06) claims; examples -----	1-22
X	EP 0 340 826 A (PHILIPS NV) 8 November 1989 (1989-11-08) page 4, lines 10-27 page 8, line 25 ----- -/-	1-11

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the International search

14 December 2004

Date of mailing of the International search report

08.04.2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Zeslawski, W

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/014444

C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 093 033 A (WEGENER PETER ET AL) 3 March 1992 (1992-03-03) claims; example 19 -----	1-11
X	JP 02 098915 A (SHOWA DENKO KK) 11 April 1990 (1990-04-11) cited in the application the whole document & PATENT ABSTRACTS OF JAPAN vol. 0143, no. 08 (E-0947), 3 July 1990 (1990-07-03) & JP 02 098915 A (SHOWA DENKO KK), 11 April 1990 (1990-04-11) abstract -----	1-11
X	JP 11 292957 A (CANON INC) 26 October 1999 (1999-10-26) the whole document & PATENT ABSTRACTS OF JAPAN vol. 2000, no. 01, 31 January 2000 (2000-01-31) & JP 11 292957 A (CANON INC), 26 October 1999 (1999-10-26) abstract -----	1-22
Y	US 4 959 430 A (HEINZE JUERGEN ET AL) 25 September 1990 (1990-09-25) the whole document -----	1-22

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/014444

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-22

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-22

Pi-conjugated copolymers comprising pyrrole and thiophene units, and a production method thereof

2. claims: 23-32

A method for producing solid capacitors

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2004/014444

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4568483	A	04-02-1986	DE	3223544 A1	29-12-1983
			DE	3366054 D1	16-10-1986
			EP	0099984 A1	08-02-1984
			JP	1713344 C	27-11-1992
			JP	3079371 B	18-12-1991
			JP	59018726 A	31-01-1984
US 5306443	A	26-04-1994	NONE		
US 4769430	A	06-09-1988	JP	62169820 A	27-07-1987
			DE	3701495 A1	23-07-1987
EP 0340826	A	08-11-1989	DE	68912820 D1	17-03-1994
			DE	68912820 T2	04-08-1994
			EP	0340826 A1	08-11-1989
			JP	1315416 A	20-12-1989
			JP	2730757 B2	25-03-1998
			US	5232630 A	03-08-1993
US 5093033	A	03-03-1992	DE	3628895 A1	10-03-1988
			DE	3717669 A1	15-12-1988
			AT	112883 T	15-10-1994
			AU	603128 B2	08-11-1990
			AU	7739087 A	03-03-1988
			CA	1336220 C	04-07-1995
			CN	87105806 A ,C	04-05-1988
			DE	3750650 D1	17-11-1994
			DK	442887 A	27-02-1988
			EP	0257573 A1	02-03-1988
			ES	2064307 T3	01-02-1995
			FI	873653 A ,B,	27-02-1988
			IL	83627 A	15-12-1991
			JP	2540166 B2	02-10-1996
			JP	63066221 A	24-03-1988
			NO	873580 A ,B,	29-02-1988
			PT	85579 A ,B	01-09-1987
			AT	398076 B	26-09-1994
			AT	258987 A	15-01-1994
JP 2098915	A	11-04-1990	JP	2922521 B2	26-07-1999
JP 11292957	A	26-10-1999	NONE		
US 4959430	A	25-09-1990	DE	3813589 A1	02-11-1989
			DE	3843412 A1	28-06-1990
			CA	1337950 C	16-01-1996
			DE	58909864 D1	03-02-2000
			EP	0339340 A2	02-11-1989
			JP	1313521 A	19-12-1989
			JP	2721700 B2	04-03-1998
			US	4987042 A	22-01-1991
			US	5035926 A	30-07-1991

BEST AVAILABLE COPY